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DATE MAILED: 09/02/2004

APPLICATION NO.	FII	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/668,483	668,483 09/22/2003		Takeshi Ootsuka	P/2850-86	2926
2352	7590	09/02/2004		EXAM	INER
OSTROLE	NK FABI	ER GERB & SOF	MALDONADO, JULIO J		
1180 AVEN NEW YOR		E AMERICAS		ART UNIT	PAPER NUMBER
NEW TOR	, 111 100500405	0300403		2823	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/668,483	OOTSUKA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Julio J. Maldonado	2823				
The MAILING DATE of this communication Period for Reply	appears on the cover sheet wit	h the correspondence address				
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO  - Extensions of time may be available under the provisions of 37 CFI after SIX (6) MONTHS from the mailing date of this communication  - If the period for reply specified above is less than thirty (30) days, a  - If NO period for reply is specified above, the maximum statutory pe  - Failure to reply within the set or extended period for reply will, by st Any reply received by the Office later than three months after the m earned patent term adjustment. See 37 CFR 1.704(b).	N. R 1.136(a). In no event, however, may a re . reply within the statutory minimum of thirty riod will apply and will expire SIX (6) MONT atute, cause the application to become AB/	eply be timely filed  (30) days will be considered timely.  FHS from the mailing date of this communication.  ANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on _						
	This action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)  Claim(s) 1-13 is/are pending in the applicate 4a) Of the above claim(s) is/are with 5)  Claim(s) is/are allowed.  6)  Claim(s) is/are rejected.  7)  Claim(s) is/are objected to.  8)  Claim(s) 1-13 are subject to restriction and application Papers	drawn from consideration.					
9) The specification is objected to by the Exam	niner.					
10) ☐ The drawing(s) filed on is/are: a) ☐ :	☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of:  1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the papplication from the International But * See the attached detailed Office action for a	ents have been received. ents have been received in Appriority documents have been reau (PCT Rule 17.2(a)).	oplication No received in this National Stage				
Attachment(s)	<b></b>					
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB. Paper No(s)/Mail Date</li> </ol>	Paper No(s)	ummary (PTO-413) )/Mail Date formal Patent Application (PTO-152) ·				

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## **DETAILED ACTION**

## Election/Restrictions

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claims 1 and 2, drawn to a method of manufacturing a semiconductor device, classified in class 438, subclass 118.
- Claims 3-13, drawn to a semiconductor manufacturing device apparatus, classified in class 156, subclass 345.39.
- 2. Inventions I and II are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP § 806.05(e)). In this case the apparatus as claimed can be used to practice another and materially different process that does not include the steps of heating the bumps to a temperature lower than a melting points of bumps provided on a surface of an electronic component and compression bonding the substrate and the electronic component via the bumps.
- 3. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.
- 4. Because these inventions are distinct for the reasons given above and the search required for Group I is not required for Group II, restriction for examination purposes as indicated is proper.

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## Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to examiner Julio J. Maldonado whose telephone number

is (571) 272-1864. The examiner can normally be reached on Monday through Friday.

6. If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Olik Chaudhuri, can be reached on (571) 272-1855. The fax number for this

group is 703-872-9306 for before final submissions, 703-872-9306 for after final

submissions and the customer service number for group 2800 is (703) 306-3329.

Updates can be found at http://www.uspto.gov/web/info/2800.htm.

Julio J. Maldonado Patent Examiner Art Unit 2823

Julio J. Maldonado August 26, 2004

George Fourson
Primary Examiner